

**ARBORICULTURAL METHOD STATEMENT
to BS 5837:2012
at
Wakefield Road
Mappleton
Barnsley
South Yorkshire
S71 3LT**

Client:
Netherton Homes

Client Address:
c/o Purico Group Ltd
6 Union Road
Nottingham
Nottinghamshire
NG3 1FH

JCA Ref:
16052/AJB

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1. Introduction

1.1 Purpose of the Method Statement

- 1.1.1 This Arboricultural Method Statement has been prepared to ensure good practice in the protection of retained trees during the development at **Wakefield Road, Mapplewell, Barnsley**.

1.2 Terms of Reference

- 1.2.1 JCA Limited is instructed by **Netherton Homes** to prepare an Arboricultural Method Statement for the proposed development. The arboricultural report conforms to the most recent specifications outlined in BS 5837: 2012 *Trees in relation to design, demolition and construction - Recommendations*.
- 1.2.2 It is proposed to construct a residential housing estate.
- 1.2.3 The following drawing has been provided and these are the basis of the Arboricultural Method Statement and the Tree Protection Plan at **Appendix 3**:
- Development Layout (Drawing No. **P14-4905-200 - PHASE 1&2 PLANNING LAYOUT & LANDSCAPE (REV H)**).

1.3 Status of the Method Statement

- 1.3.1 This Arboricultural Method Statement should be included as part of the specification and schedule of works issued to the building contractor and can form part of the contract.
- 1.3.2 This Arboricultural Method Statement should be available on site for inspection by the local authority, contractors and other relevant persons.

2. Tree Works Prior, During and Post Construction

2.1 Tree Works Prior to Construction

- 2.1.1 Prior to any construction activity, the first operation on site will be the undertaking of the necessary arboricultural works, as described at **Appendix 1**.
- 2.1.2 The tree works include:
- The removal of **T8**, for arboricultural reasons.
 - The removal of **T2, G3, G4, G6, T9, G10, G13, G14, G16, G17, G18** and **G20**, to facilitate the proposed development.
 - The removal of sections of **H1, H15** and **H19**, in order to facilitate the proposed development.
 - The selective removal of trees within **H1** in order to form a linear hedge feature and to provide rear garden clearance for properties.
 - The pruning back of the retained hedges within **H1, H12, H15** and **H19** in order to provide rear garden clearance for properties and to facilitate the erection of garages.

2.2 Tree Works During or Post-Construction

- 2.2.1 In this case, no tree works are envisaged to be required during the construction phase.
- 2.2.2 Damage to trees during the construction phase should be entirely prevented by the installation of the temporary protective fencing in order to create a Construction Exclusion Zone (CEZ). All persons on site must be aware of limitations that apply within the CEZ (please refer to **Section 3.1.3**).
- 2.2.3 If any trees on site are damaged, this must be immediately reported to JCA to agree on appropriate remedial action. Contact numbers for all parties can be found at **Section 7**.

2.3 Recommendations for Tree Works

- 2.4.1 All work must be undertaken to BS 3998: 2010 - *Recommendations for tree work* and carried out by qualified, experienced and, ideally, Arboricultural Association approved contractors who must be adequately insured.
- 2.4.2 Any defects seen by a contractor or the client that were not apparent to the consultant must be brought to the attention of JCA immediately.

- 2.4.3 No liability can be accepted by JCA in respect of the trees unless the recommendations of this Method Statement are carried out under our supervision.

3. The Protective Barrier Prior, During and Post Construction

3.1 Protective Barrier Prior to Construction

- 3.1.1 The installation of the temporary protective fencing will be the very first job to be undertaken on site following the completion of the tree works (**Section 2.1**).
- 3.1.2 The protective fencing must be constructed in accordance with BS 5837: 2012 *Trees in relation to design, demolition and construction - Recommendations* and will be located as shown on the Tree Protection Plan at **Appendix 3**. Where possible, the protective barrier will enclose the entire Root Protection Area (RPA) of the trees to make a Construction Exclusion Zone (CEZ); **this area is to be considered a restricted area; no pedestrians, vehicles, equipment or machinery are allowed within the CEZ and the storage of materials is not permitted, unless specified within this Method Statement.**
- 3.1.3 The protective fencing will be installed in accordance with BS 5837: 2012 and will comprise of a vertical and horizontal scaffold framework, well braced to resist impacts. The vertical tubes should be spaced at a maximum interval of 3m and driven securely into the ground, taking care to avoid underground services and structural roots. Finally, weld mesh panels are to be securely fixed on the scaffold framework. Please refer to **Appendix 2** for protective fencing details.
- 3.1.4 Once the fencing is installed, waterproof signs with the sentence ‘*Protected tree zone, no storage or operations within this area*’ are to be placed at 3m intervals to ensure that all personnel are aware of the restrictions that apply to the cordoned off area. A prepared sign is available at **Appendix 2**.

3.2 Ground Protection

- 3.2.1 As all retained vegetation is located behind the protective fence line, ground protection measures are not required on this occasion.

3.3 Checking the Protective Fencing Prior to Construction

- 3.3.1 Once installed, the appointed arboriculturalist will be invited on site to inspect the protective fencing, ensuring that it is located in the correct position and that it has been constructed in accordance with this Method Statement. No other work, including soil stripping, excavation, or the bringing onto site of materials or machinery, shall commence until the barrier is installed and confirmed to be acceptable by the appointed arboriculturalist.

- 3.3.2 It is important that the protective fencing be checked by the LPA or an arboricultural consultant prior to any construction works being carried out on site. **If at any time during construction the protective fencing is not correctly installed, or if it does not comply with BS 5837: 2012, this could result in damage being caused to trees and consequently, a stop notice may be served by the LPA.**

3.4 Protective Barrier During Construction

- 3.4.1 No operations shall take place which require the removal of part of the protective fencing without prior agreement with the Local Planning Authority or JCA.
- 3.4.2 The protective fencing must be inspected for faults or damage by the site manager or other responsible named person on a regular basis and a written record kept. Any faults or defects must be repaired or replaced as soon as is reasonably practicable. Details of the site manager and relevant contact details can be found at **Section 7**.

3.5 Removal of the Protective Fencing

- 3.5.1 When the development phase is complete and the main site machinery has been removed, the Local Planning Authority should be invited to inspect the site to give approval for the removal of the protective fencing.
- 3.5.2 When this approval has been given the protective fencing may be dismantled and removed from site.
- 3.5.3 It should be noted the same restrictions apply to all RPAs as the CEZ (please refer to **Section 3.1.2**).

4. Construction Phase

4.1 Demolition Works

4.1.1 No demolition works are required adjacent to retained trees.

4.2 Ground Level Changes

4.2.1 No ground level changes are required within the RPA of any tree to be retained on this site. As such no mitigation actions are considered necessary.

4.3 Construction of Hard Surfaces

4.3.1 No new hard surfaces are proposed within the RPA of retained trees. As such, no specialist mitigation actions are required.

4.4 Construction of New Buildings

4.4.1 The proposed buildings are located at a sufficient distance from retained trees that no specialist foundation methods are required for arboricultural purposes.

4.5 Excavations and Services

4.5.1 The routing of the proposed utilities is situated outside the RPAs of retained trees. As such, no mitigation actions are considered necessary to mitigate potential damage to tree roots.

4.6 Location of the Site Compound

4.6.1 The site compound, typically including the site office, mess facilities, toilets, storage of materials and parking, must be located away from, and outside the RPA of retained trees. Areas designated for the storage and/or mixing of chemicals, including petrol, diesel and oils must also be located away from, and outside the RPA of retained trees. Such areas should be constructed with consideration to, and contingencies for, the occurrence of spillages, preventing the leaching of chemicals into unprotected, open ground.

5. Post Construction Phase

5.1 Completion Meeting

- 5.1.1 Upon completion of the works as specified in **Section 4**, a JCA consultant will invite the Local Planning Authority representative to meet with them on site to agree on any remedial works which may be required.
- 5.1.2 Any necessary remedial tree works will be confirmed in writing and must be carried out in accordance with BS 3998: 2010 - *Recommendations for tree work*.
- 5.1.3 Due to the large potential penalties for illegally carrying out work to protected trees, JCA recommend that a further check is carried out prior to any works being undertaken post development.

5.2 Post Construction Landscaping

- 5.2.1 Following completion of the main construction phase, the protective fencing may be removed and the landscaping phase can commence.
- 5.2.2 The proposals may include for the installation of wooden boundary fences and gate posts. Where these are located within the RPA of retained trees, post holes will be dug by hand and they are to be as small as practically possible. They may be driven in either by hand or using mechanical means. However, if construction plant is to be used, it must work from outside of the RPA at all times.
- 5.2.3 The retained trees on site may be subject to some form of landscaping or seeding beneath their canopies after the development phase. At this stage the protective fencing will have been removed.
- 5.2.4 Landscaping works must be carried out in such a way as to avoid ground level changes or deep digging within RPAs. Tractor mounted rotovation or other mechanised cultivation methods must not be used within the RPAs of retained trees.
- 5.2.5 Heavy machinery is not permitted in the vicinity of retained trees, unless otherwise stated in this method statement.
- 5.2.6 Herbicides should be appropriate for the purpose and should not be used in such a way as to damage any retained trees or vegetation.
- 5.2.7 If in doubt, regarding the impact of proposed landscape operations, please contact the appointed arboriculturalist.

6. Timescale of Works

6.1.1 The timescale for arboricultural requirements are summarised below:

Timescale	Action	✓	Initial
Stage 1	All requirements listed in the planning consent are approved by the Local Authority planning office.		
Stage 2	Undertake the tree works (as detailed at Appendix 1).		
Stage 3	Install the temporary protective fencing around the trees (as detailed at Appendix 2 and as shown on the Tree Protection Plan at Appendix 3).		
Stage 4	Have the Local Planning Authority or Arboricultural Consultant inspect the fencing measures prior to any on site construction. Once inspected, the protective fencing must not to be moved or breached.		
Stage 5	Undertake the construction phase.		
Stage 6	Following the completion of the construction phase and when all site traffic and machinery has left, the protective fencing can be removed.		
Stage 7	Undertake the landscaping scheme.		

7. Relevant Contact Details

Contact Name	Organisation/Detail	Contact Number
Andrew Bussey Arboricultural Consultant	JCA Limited	01422 376335
Ed Jowett Tree Officer	Barnsley Metropolitan Borough Council	01226 770770
TBC Site Manager	TBC	TBC

Appendices

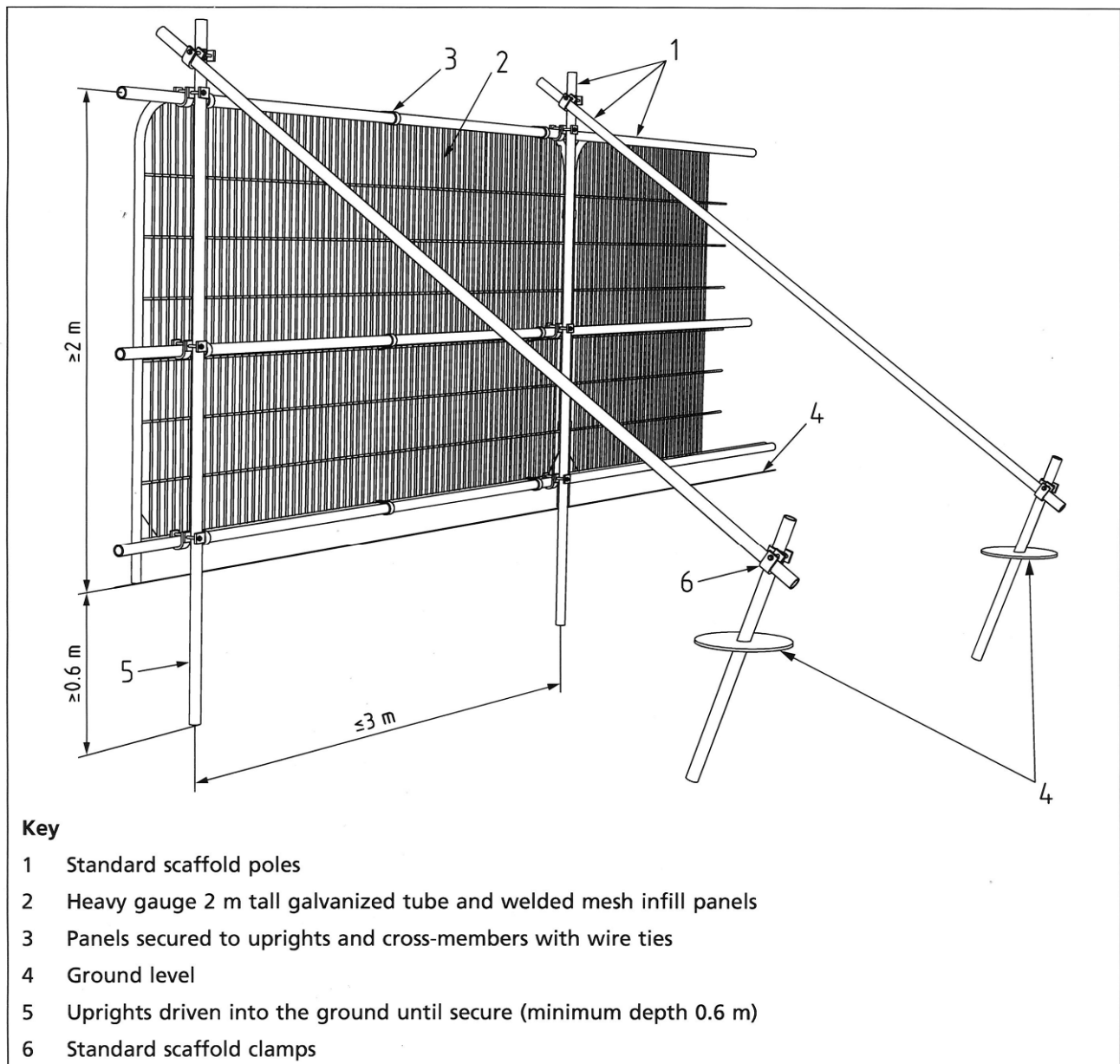
Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
H 1	Semi to early-mature Mixed species <i>Details in observations</i>	To 7	0+	0+ n/a	To 25	See plan	Overhanging the footpath and the road. Unmaintained Hawthorn and Elder hedgerows. Occasional Sycamores noted.	Remove the section shown in red on the plan at Appendix 3 . Within the retained hedge, selectively remove trees in order to form a linear hedge. Prune back the remainder of the hedge to form a new canopy, as indicated in a blue line on the plan at Appendix 3 .	GOOD	GOOD	MOD	LOW TO HIGH	40+	B 2
T 2	Early-mature Wild Cherry <i>Prunus avium</i>	10	0	0 n/a	30	3.5 3.5 3.5 3.5	Twin-stemmed at 1m with a balanced crown. No evidence of significant pruning. No major visible defects.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	MOD	20+	C 1
G 3	Semi-mature Elder <i>Sambucus nigra</i>	To 3	0+	0+ n/a	To 20	See plan	Two multiple stemmed trees.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW	20+	C 2
G 4	Semi-mature Mixed species <i>Details in observations</i>	To 8	0+	0+ n/a	To 20	See plan	Dense masses of Downy Birch, Hawthorn and Goat Willow.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2
H 5	Semi-mature Mixed species <i>Details in observations</i>	To 1.6	0+	0+ n/a	To 15	See plan	Maintained rear garden Hawthorn and Leyland Cypress hedges.	No action required.	GOOD	GOOD	LOW	HIGH	20+	C 2
G 6	Young to early-mature Wild Cherry <i>Prunus avium</i>	To 13	0+	0+ n/a	To 30	See plan	A dense mass of self-seeded trees.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	MOD	20+	C 2
T 7	Early-mature Hawthorn <i>Crataegus monogyna</i>	6	0	0 n/a	30	3 3 3 3	Multi-stemmed at 1.5m with a balanced crown. Occasional pruning wounds. No major visible defects.	No action required.	GOOD	GOOD	LOW	HIGH	20+	C 1
T 8	Early-mature Goat Willow <i>Salix caprea</i>	9	1	1 n/a	25 x 8 Avg.	6 6 6 6	Multi-stemmed at ground level with a balanced crown. Significant die-back to the crown of circa 50%.	Remove.	POOR	FAIR	LOW	HIGH	<10	U
T 9	Early-mature Silver Birch <i>Betula pendula</i>	13	2	2 n/a	26	3.2 3.2 3.2 3.2	Single-stemmed and vertical with a balanced crown. No evidence of significant pruning. No major visible defects.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW	20+	C 1
G 10	Semi to early-mature Hawthorn <i>Crataegus monogyna</i>	To 7	0+	0+ n/a	To 25	See plan	Three trees of a balanced form.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	HIGH	20+	C 2

Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 11	Mature Sycamore <i>Acer pseudoplatanus</i>	14	5	4 n/a	45 x 2	6 6 6	Twin-stemmed at 1m with a balanced crown. No evidence of significant pruning.	No action required.	GOOD	GOOD	LOW	MOD	40+	B 1
H 12	Semi to early-mature Mixed species <i>Details in observations</i>	To 10	0+	0+ n/a	To 28	See plan	An unmaintained Hawthorn and Elder hedgerow. Occasional Sycamores noted.	Prune back the most southern hedge to form a new canopy, as indicated in a blue line on the plan at Appendix 3 .	GOOD	GOOD	LOW	LOW TO HIGH	40+	B 2
G 13	Semi to early-mature Mixed species <i>Details in observations</i>	To 14	0+	0+ n/a	To 26	See plan	A dense mass of Crack Willow, Osier, Hawthorn and Common Alder.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	MOD TO HIGH	20+	C 2
G 14	Semi to early-mature Mixed species <i>Details in observations</i>	To 8	0+	0+ n/a	To 30	See plan	Self-seeded Hawthorn and Goat Willow of low value.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	HIGH	20+	C 2
H 15	Semi to early-mature Mixed species <i>Details in observations</i>	To 7	0+	0+ n/a	To 25	See plan	An unmaintained Hawthorn and Elder hedgerow. Occasional Common Ash noted.	Remove the sections shown in red on the plan at Appendix 3 . Prune back the most northern retained hedge to form a new canopy, as indicated in a blue line on the plan at Appendix 3 .	GOOD	GOOD	LOW	MOD TO HIGH	40+	B 2
G 16	Semi-mature Mixed species <i>Details in observations</i>	To 12	0+	0+ n/a	To 25	See plan	Self-seeded Hawthorn, Sycamore and Elder of low value.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2
G 17	Semi to early-mature Mixed species <i>Details in observations</i>	To 13	0+	0+ n/a	To 25	See plan	Growing close to overhead power lines (circa 1.5m away in places). A dense mass of Downy Birch, Goat Willow and Hawthorn.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2
G 18	Young to semi-mature Mixed species <i>Details in observations</i>	To 13	0+	0+ n/a	To 25	See plan	A dense mass of self seeded Goat Willow, Common Ash, Downy Birch, Hawthorn and Sycamore.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2
H 19	Semi to early-mature Mixed species <i>Details in observations</i>	To 7	0+	0+ n/a	To 25	See plan	An unmaintained Hawthorn and Elder hedgerow. Occasional Wild Cherry noted.	Remove the sections shown in red on the plan at Appendix 3 . Prune back the retained hedge to form a new canopy, as indicated in a blue line on the plan at Appendix 3 .	GOOD	GOOD	LOW	LOW TO HIGH	40+	B 2
G 20	Young to semi-mature Mixed species <i>Details in observations</i>	To 13	0+	0+ n/a	To 25	See plan	A dense mass of self seeded Goat Willow, Common Ash, Downy Birch, Hawthorn and Sycamore.	Remove to facilitate the proposed development.	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2

Tree Ref.	Age Common Name <i>Botanical Name</i>	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
H 21	Semi to early-mature Mixed species <i>Details in observations</i>	To 5	0+	0+ n/a	To 23	See plan	An unmaintained Hawthorn and Elder hedgerow.	No action required.	GOOD	GOOD	LOW	LOW TO HIGH	40+	B 2

Appendix 2: Protective Barrier

A2.1 The protective barrier will be installed in accordance with BS5837: 2012. The default specification of BS 5837: 2012 (pictured below for reference) recommends a vertical and horizontal, scaffold framework, well braced to resist impacts, with vertical tubes at no more than 3m intervals. These should be driven into the ground. Weld mesh panels should be affixed to this framework with scaffold clamps/



Protective Barrier to BS 5837: 2012. To be used where situated in open ground.

TREE PROTECTION ZONE

KEEP OUT!

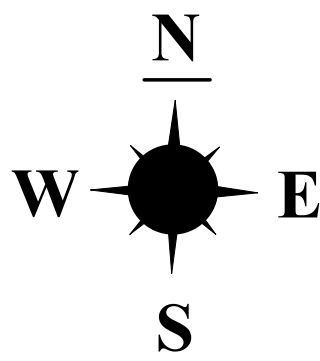
TREES ENCLOSED BY THIS FENCE ARE PROTECTED
BY STRICT PLANNING CONDITIONS

ANY DAMAGE CAUSED TO THESE TREES MAY
RESULT IN CRIMINAL PROSECUTION

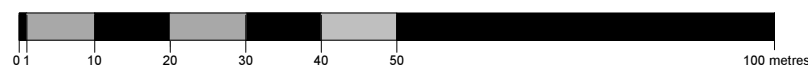
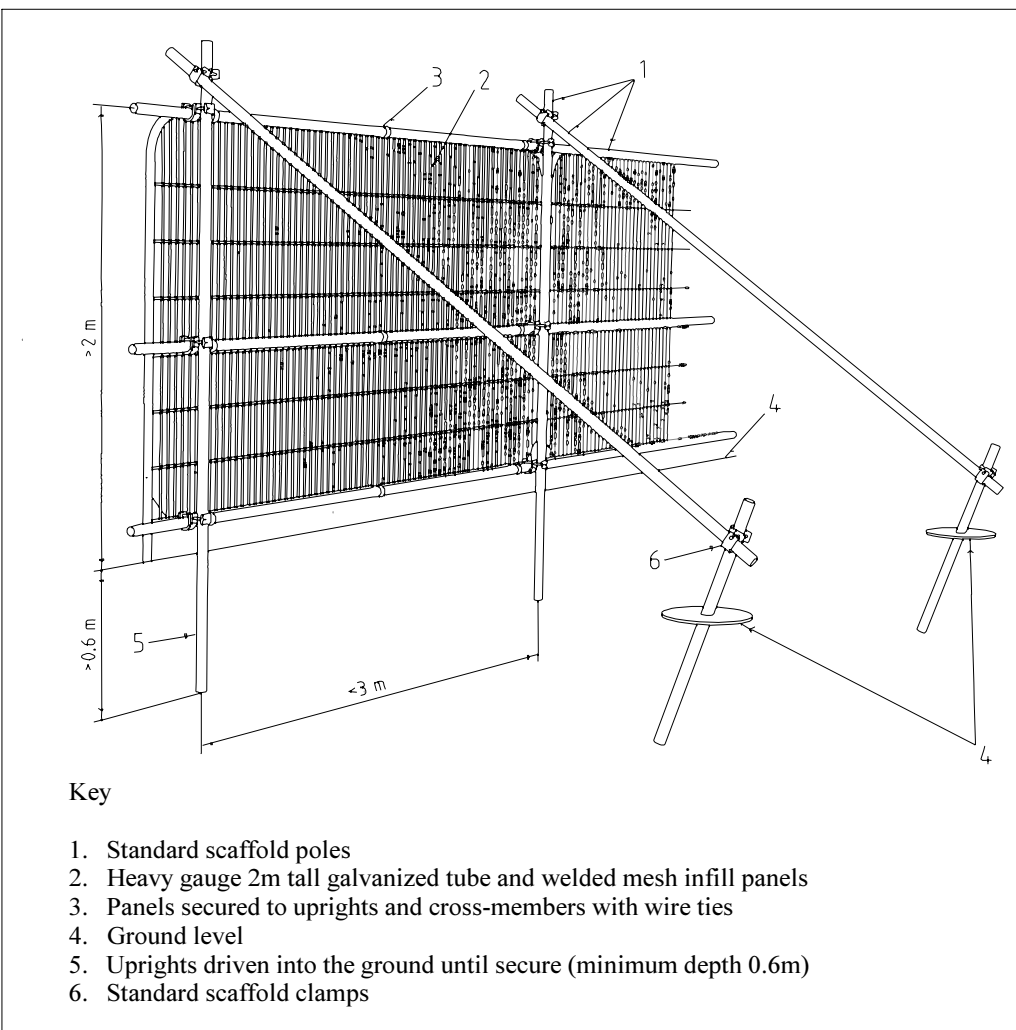
RESTRICTED AREA:

- THE PROTECTIVE FENCE MUST NOT BE MOVED OR BREACHED
- NO PERSON, MACHINERY, VEHICLE OR PLANT IS PERMITTED WITHIN THE TREE PROTECTION ZONE
- NO MATERIALS SHALL BE STORED WITHIN THE TREE PROTECTION ZONE
- NO EXCAVATIONS ARE PERMITTED WITHIN THE TREE PROTECTION ZONE
- NO SPOIL IS TO BE DEPOSITED WITHIN THE TREE PROTECTION ZONE
- NO FIRES ARE TO BE LIT WITHIN THE TREE PROTECTION ZONE

REPORT TREE DAMAGE TO JCA LIMITED ON
01422 376 335



Default specification for a protective barrier



THIS PLAN IS TO BE PRINTED IN COLOUR
AND READ IN CONJUNCTION WITH THE
JCA ARBORICULTURAL REPORT
(JCA REF: 16052/AJB)

Appendix 3: Tree Protection Plan

ADDRESS: Wakefield Road, Mapplewell,
Barnsley, South Yorkshire, S71 3LT.
JCA REF: 16052/AJB.

SCALE: 1:1000 PAPER SIZE : A1

SURVEYED BY: AJB DRAWN BY: AJB APPROVED BY: TP

	VEGETATION TO BE RETAINED
	VEGETATION TO BE REMOVED
	STEM OF TREE TO BE RETAINED
	STEM OF TREE TO BE REMOVED
	ROOT PROTECTION AREA (RPA) OF RETAINED VEGETATION
	NEW CANOPY EXTENT OF HEDGES FOLLOWING PRUNING WORKS AND SELECTIVE TREE REMOVALS
	PROTECTIVE FENCE LINE (CEZ)
	NEW TREE PLANTING

TREE PROTECTION MEASURES

THE ROOT PROTECTION AREA (RPA) INDICATES THE LIKELY ROOTING ZONE OF A TREE.

UNLESS OTHERWISE STATED IN THE ARBORICULTURAL METHOD STATEMENT, THIS AREA NEEDS TO REMAIN UNDISTURBED.

TO ACHIEVE THIS, PROTECTIVE FENCING WILL BE INSTALLED TO ENCLOSE THE RPA TO MAKE A CONSTRUCTION EXCLUSION ZONE (CEZ);

THIS AREA IS TO BE CONSIDERED A RESTRICTED AREA; NO PEDESTRIANS, VEHICLES, THE STORAGE OF MATERIALS, EQUIPMENT OR MACHINERY ARE ALLOWED WITHIN THE CEZ, UNLESS SPECIFIED WITHIN THE ARBORICULTURAL METHOD STATEMENT.

IT IS IMPORTANT THAT THE PROTECTIVE FENCING IS CHECKED BY THE LPA OR THE ARBORICULTURAL CONSULTANT PRIOR TO ANY CONSTRUCTION WORKS BEING CARRIED OUT. IF THE TREE PROTECTION MEASURES ARE NOT CORRECTLY INSTALLED OR IF THEY DO NOT COMPLY WITH BS 5837: 2012, THIS COULD RESULT IN DAMAGE BEING CAUSED TO TREES AND CONSEQUENTLY A STOP NOTICE MAY BE SERVED BY THE LPA.

I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed



.....

Andrew Bussey.

12th June 2020

For and on behalf of **JCA Ltd**

Registered Office:

**Unit 80
Bowers Mill
Branch Road
Barkisland
Halifax
HX4 0AD**

**Tel. 01422 376335
Fax. 01422 376232
Email: jon@jcaac.com**

www.jcaac.com

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- Disease Mitigation and Control

ECOLOGICAL SERVICES

Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected Species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes

Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)

HEAD QUARTERS:

Unit 80 Bowers Mill,
Branch Road,
Barkisland,
Halifax, HX4 0AD.

Tel: 01422 376335
Mobile: 07778 391986
Email: jon@jcaac.com
Website: www.jcaac.com

